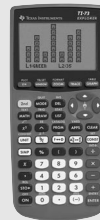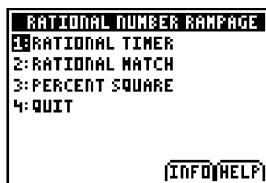# Rational Number Rampage App

For the TI-73 Explorer™

Help students sharpen fraction, decimal, and percentage representation skills with three games: Rational Timer, Rational Match, and Percent Square. Build number sense and gain confidence with using fractions, decimals, and percents. The numbers in the games are the fraction types recommended in the NCTM Principles and Standards for grades 3-5 and 6-8. This is a great review for high school as well.

To Begin

With the handheld turned on, press [APPS]. Select RRampage and press [ENTER]. Press any key to move along the opening screens to the RATIONAL NUMBER RAMPAGE screen. Highlight the desired game and press [ENTER].
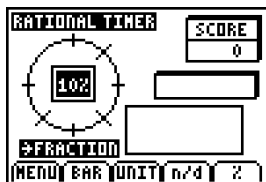
Options such as <INFO> appear at the bottom of several screens. Press the graphing key ([Y=], [WINDOW], [ZOOM], [TRACE], and [GRAPH]) under the appropriate selection
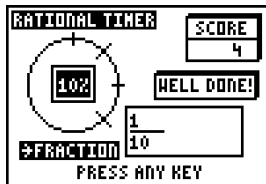to activate the soft key.

1 Rational Timer Game

Read <HELP> on this screen for details on playing and scoring the game. Select BRONZE in this example.

2

Press any key to start the game. A number appears in the clock. Input a fraction, decimal, or percent. Notice FRACTION on the screen to the left indicates the input should be in fraction (simplest) form.
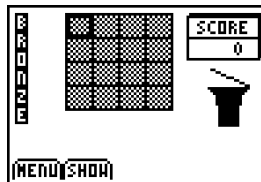
3

Input the correct representation using the options before the tick marks on the clock disappear. Press [ENTER] to check the answer. Press any key to continue play.

If an input is a repeating decimal, use the arrow keys to scroll over the repeating number and press <BAR>. Enter all fractions using <UNIT> and <n/d> which work in a similar fashion as the fraction keys on the TI-73. Fractions should be in simplest form. Mixed fractions are accepted but improper fractions are not.
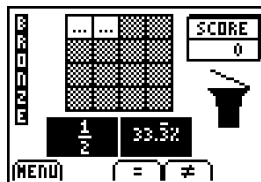
1 Rational Match

Read <HELP> on this screen for details on playing and scoring the game. Select BRONZE in this example.
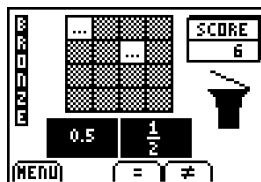
2

Use the arrow keys to select a card and press <SHOW> to see it. Try to match the number to another equivalent number.

3

<SHOW> two cards and then press <=> or <≠>. Cards either go back into the game board, or if they are equal, go in the trash.
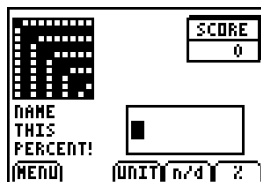
4

Since these numbers are equal, press the <=> sign to send them to the trash. Play for the low score.
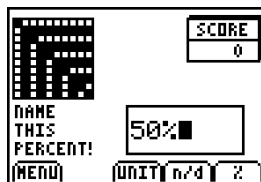
1 Percent Square

Read <HELP> on this screen for details on playing and scoring the game. Press <DEMO> to see an explanation of the game. Select SILVER in this example.

2

The 10 x 10 square is one unit. Wait for this 100s square to shade in. Note: At the Silver Level, the numbers range from 0 to 1. At the Gold Level, there are two unit squares so numbers range from 0 to 2.

3

Input the correct representation using <UNIT>, <n/d>, and <%>. Fractions must be in simplest form. Mixed numbers are accepted over improper fractions. Press [ENTER] to check the answer and move to the next problem.

To Quit

Press [2nd] [QUIT] at any time to access previous screens and to leave the application.